

## Interim Measures

The information contained in this table reflects work in progress by the Interim Measures group. The exact input specifications and assumptions for each model run are contained in the SFWMM input files. This table is to serve only as a basis of communication between those working on the Interim Measures (effort related to FWS Biological Opinion). **Not for distribution.**

Notes to Interim Measures Group:

- Criteria for 1983 base and Test 7 Phase 1 should be double-checked with input files for the Test 7 EA model runs.
- Criteria for 1995 base should be double-checked with input files for the Restudy 1995 base.
- Criteria for scenarios should be specified for all structures, or it should be specified whether a scenario builds from the 1995 base or another scenario.

Table last revised  
10/14/98 4:37 PM

Table last revised 10/14/98 4:37 PM		Bases and current conditions						Preliminary runs (not yet alternatives)									
		1983 Base EA		Test 7 Phase 1 EA		1995 Base* SFWMMv3.6		Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
Description		Input and assumptions same as the Corps modeling in the Test 7 EA.		Input and assumptions same as the Corps modeling in the Test 7 EA.		Input and assumptions similar to SFWMD modeling of 1995 base for the Restudy		Same as ENP's Alternative 3 from the draft NPS 1998 document		Operational changes		Same as Scenario 2 with G-3273 trigger turned off		Same as 1995 base except no BMP make-up rule		LEC plan operational strategies, post-MWD, longer term, beyond interim measures	
Regional Criteria																	
Interim Action Plan		Included		Included		Included		Included		Included		Included		Included		Included	
BMP make-up		Not included (reconsider and document if significant impact)		Included		Included		Included		Included		Included		Don't use when WCAs in regulation zone (same as rule for L.O. releases)		Included	
Southern Everglades Criteria																	
S-343A&B	Open	10		10		10				Jan-Jun closed (sparrow)							
	Close	6.5		6.5		6.5											
S-344	Open	10		10		10				Jan-Jun closed (sparrow)							
	Close	6.5		6.5		6.5											

Table last revised  
10/14/98 4:37 PM

Table last revised 10/14/98 4:37 PM		Bases and current conditions						Preliminary runs (not yet alternatives)									
		1983 Base EA		Test 7 Phase 1 EA		1995 Base* SFWMMv3.6		Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
S-12s		Minimum delivery schedule		Restricted Rain- driven Water Deliveries		Restricted Rain- driven Water Deliveries A=10%, B=20%, C=30%, D=40%				Jan-Jun A&B closed D at 70% C at 30% (sparrow)							
S-333	Open	Water supply		See note below		See note below				See note below, except raise TW trigger to 8.0 Jan-Jun		Turn off G- 3273 trigger (re-hy NESRS)					
	Close																

*S-333 criteria: (Kendall v. Marsh) if TW=> 7.5 then close, if G-3273 > 6.8 for 24 hrs then close, if G-3273 > 6.5 for 48 hrs and G-3273 rising at a rate that would cause it to exceed 6.8 within the next 24 hrs then close*

S-334	Open	Water supply	N/A	6.0					
	Close			5.0					
S-335	Open	7.3	7.5	7.5					
	Close	7.0	7.2	7.2					
G-211	Open	N/A	6.0	6.0					
	Close		5.5	5.5					
S-338	Open	5.2 in L-31N @S-331	6.0 in L-31N @G-211	5.8 in L-31N @G-211					
	Close	4.8 in L-31N @S-331	5.5 in L-31N @G-211	5.5 in L-31N @G-211					
S-173/S-331	On	4.8	4.8	See note below					
	Off	4.3	4.3						

*Angel well criteria: If 5.5<Angel<6.0 then pump to maintain between 4.5-5.0, if Angel > 6.0 then pump to maintain S-331 HW between 4.0-4.5 until Angel falls below 5.7, terminate pumping if S-176 HW>5.5 or S-331 TW>6.0, terminate pumping if 5.5<S-176 HW<5.0 and heavy rain is forecast, resume pumping when S-176 falls below 5.0*

S-194	Open	5.7	4.5	5.3					
	Close	5.3	4.1 dry (4.2 wet)	4.8					
S-196	Open	5.7	4.5	5.5					
	Close	5.3	4.1 dry (4.2 wet)	4.8					
S-176	Open	6.0	5.0	5.0					

Table last revised  
10/14/98 4:37 PM

		Bases and current conditions						Preliminary runs (not yet alternatives)									
		1983 Base EA		Test 7 Phase 1 EA		1995 Base* SFWMMv3.6		Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
S-174	Close	5.4		4.75		4.75											
	Open	5.7		4.85		4.85											
	Close	5.3		4.65		4.65											
S-332D	On	N/A		N/A		N/A											
	Off																
S-332	On	N/A		4.7		3.7	4.7										
	Off			4.3		3.3	4.3										

*S-332 criteria for Test 7 Phase 1 EA: Use Rainfall-stage formula as long as it does not violate flood control criteria defined for S-332 above. Pump up to 500 cfs to maintain maximum stage of 4.5 ft*

*S-332 criteria for 1995 base: Use Rainfall-stage formula as long as it does not violate flood control criteria defined for S-332 above. Pump up to 165 cfs between January and June to maintain target L-31W stage between 3.0 and 4.7 ft. Pump up to 500 cfs between July and December to maintain target L-31W stage between 3.0 and 4.7 ft.*

S-175	Open	4.7		4.7		4.7											
	Close	4.3		4.3		4.3											
S-177	Open	5.2		4.2		4.2											
	Close	4.3		3.6		3.6											
S-18C	Open	2.4		2.6		2.6				2.3 Jan-Jun (sparrow)							
	Close	1.6		2.3		2.3				?							
S-197	Open																
	Close	1.9		1.9		2.3											

*S-197 1983 base criteria: S-177/S-18C open full & S-177 >4.3, open 3 gates and pull earth plug. In SFWMM flow is limited to keep stage above the gate closed levels specified above.*

*S-197 Test 7 Phase 1 criteria: Open 3 gates if S-177 open & S-177 >4.1 or S-18C >2.8, open 7 gates if S-177 >4.2 or S-18C >3.1, open 13 gates S-177 >4.3 or S-18C >3.3, close when all following conditions are met: 1) S-176 <5.2 and S-177 <4.2, 2) Storm moved away from basin, and 3) after 1 and 2 are met, keep the number of S-197 culverts open necessary only to match residual flow through S-176. All culverts closed if S-177 <4.1 after all conditions satisfied. . In SFWMM flow is limited to keep stage above the gate closed levels specified above.*

*S-197 A995 Base: Uses same criteria as Test 7 Phase I with different gate closed levels as specified above.*

S-148	Open	5.5		5.0	5.2	5.0	5.2										
	Close	3.7		4.0	4.6	4.0	4.6										
S-165	Open	5.9		4.0	4.6	4.0	4.6										
	Close	5.1		3.3	4.0	3.3	4.0										

Table last revised  
10/14/98 4:37 PM

		Bases and current conditions						Preliminary runs (not yet alternatives)									
		1983 Base EA		Test 7 Phase 1 EA		1995 Base* SFWMMv3.6		Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
S-167	Open	5.9		4.0	4.5	4.0	4.5										
	Close	5.1		3.3	4.0	3.3	4.0										
S-179	Open	3.9		3.0	3.7	3.0	3.7										
	Close	3.1		2.5	3.0	2.5	3.0										

\* 1995 Base\* is different from the 1995 Base used in the C&SF Restudy because of model improvements in SFWMMv3.6. These improvements include splitting of the S-12's into S-12A, S-12B, S-12C and S-12D and refinements to the operation of S-333.